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Terms	Documents
13 same (dis\$1 or medium)	22

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IBM Technical Disclosure Bulletins

**Database:**[Refine Search:](#)[Clear](#)**Search History****Today's Date:** 10/23/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	13 same (dis\$1 or medium)	22	L4
USPT	12 same (frequenc\$ or gain)	41	L3
USPT	11 same (vco or oscillat\$)	44	L2
USPT	optical same clock same reference same (phase or pll) same divider\$1	76	L1

**WEST****Generate Collection****Search Results - Record(s) 1 through 10 of 22 returned.**

1. Document ID: US 6118742 A

L4: Entry 1 of 22 File: USPT Sep 12, 2000

US-PAT-NO: 6118742

DOCUMENT-IDENTIFIER: US 6118742 A

TITLE: Disk-rotation control apparatus

DATE-ISSUED: September 12, 2000

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsui; Shigeru	Tokyo	N/A	N/A	JPX
Yashima; Noboru	Tokyo	N/A	N/A	JPX
Kizu; Naoki	Tokyo	N/A	N/A	JPX
Sugiyama; Kazuhiro	Tokyo	N/A	N/A	JPX
Hiratsuka; Yukari	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 369/50

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

2. Document ID: US 6069854 A

L4: Entry 2 of 22

File: USPT

May 30, 2000

US-PAT-NO: 6069854  
DOCUMENT-IDENTIFIER: US 6069854 A

TITLE: Disk reproducing device, a disk reproducing method, a disk rotation control method, and a regenerative clock signal generating device

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koudo; Toshikazu	Nishinomiya	N/A	N/A	JPX
Imura; Masaharu	Neyagawa	N/A	N/A	JPX
Kuno; Yoshiki	Osaka	N/A	N/A	JPX
Mashiko; Yasuhisa	Takatsuki	N/A	N/A	JPX
Ishibashi; Hidefumi	Neyagawa	N/A	N/A	JPX

US-CL-CURRENT: 369/54

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Claims] [KMC] [Draw Desc] [Image]

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3. Document ID: US 5991250 A

L4: Entry 3 of 22 File: USPT Nov 23, 1999

US-PAT-NO: 5991250  
DOCUMENT-IDENTIFIER: US 5991250 A

TITLE: Optical disc recording method and apparatus for recording clock stabilization information on a portion of a unit block adjacent a discontinuous recording position

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Dae Young	Seoul	N/A	N/A	KRX

US-CL-CURRENT: 369/47; 369/48

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Claims] [KMC] [Draw Desc] [Image]

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4. Document ID: US 5956307 A

L4: Entry 4 of 22 File: USPT Sep 21, 1999

US-PAT-NO: 5956307  
DOCUMENT-IDENTIFIER: US 5956307 A

TITLE: Device and method for reproducing data from disk, method for controlling rotation of disk, and reproduction clock generating device

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koudo; Toshikazu	Nishinomiya	N/A	N/A	JPX
Imura; Masaharu	Neyagawa	N/A	N/A	JPX
Kuno; Yoshiki	Osaka	N/A	N/A	JPX
Mashiko; Yasuhisa	Takatsuki	N/A	N/A	JPX
Ishibashi; Hidefumi	Neyagawa	N/A	N/A	JPX

US-CL-CURRENT: 369/50; 369/124.04, 369/124.14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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5. Document ID: US 5933399 A

L4: Entry 5 of 22 File: USPT Aug 3, 1999

US-PAT-NO: 5933399  
DOCUMENT-IDENTIFIER: US 5933399 A

TITLE: Optical disc recording method and apparatus with variable speed control function

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Dae Young	Seoul	N/A	N/A	KRX

US-CL-CURRENT: 369/50; 369/48

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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6. Document ID: US 5909150 A

L4: Entry 6 of 22 File: USPT Jun 1, 1999

US-PAT-NO: 5909150

DOCUMENT-IDENTIFIER: US 5909150 A

TITLE: System and method for improving the regulation of a supply voltage for a controllable oscillator using feed forward control techniques

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kostelnik; Matthew M.	Austin	TX	N/A	N/A
Pietruszynski; David M.	Austin	TX	N/A	N/A

US-CL-CURRENT: 331/34; 327/156, 331/17, 331/177R, 331/185,  
331/186, 331/8, 360/51

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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7. Document ID: US 5828638 A

L4: Entry 7 of 22 File: USPT Oct 27, 1998

US-PAT-NO: 5828638

DOCUMENT-IDENTIFIER: US 5828638 A

TITLE: Disc data reproducing apparatus and signal processing circuit

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inagawa; Jun	Kanagawa-ken	N/A	N/A	JPX
Hayashi; Yasuhiro	Kanagawa-ken	N/A	N/A	JPX
Kubo; Makoto	Kanagawa-ken	N/A	N/A	JPX

US-CL-CURRENT: 369/54; 369/48, 386/109, 386/126, 386/95

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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8. Document ID: US 5815485 A

L4: Entry 8 of 22 File: USPT Sep 29, 1998

US-PAT-NO: 5815485  
DOCUMENT-IDENTIFIER: US 5815485 A

TITLE: Recording medium, a method for producing the same, a control method using the recording medium, and a recording/reproducing apparatus using the recording medium

DATE-ISSUED: September 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Shinichi	Kyoto	N/A	N/A	JPX
Ishibashi; Hiromichi	Ibaraki	N/A	N/A	JPX
Moriya; Mitsurou	Ikoma	N/A	N/A	JPX
Kadowaki; Shinichi	Hirakata	N/A	N/A	JPX

US-CL-CURRENT: 369/275.3; 369/44.26

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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9. Document ID: US 5815476 A

L4: Entry 9 of 22 File: USPT Sep 29, 1998

US-PAT-NO: 5815476  
DOCUMENT-IDENTIFIER: US 5815476 A

TITLE: Disc data reproducing apparatus and signal processing circuit

DATE-ISSUED: September 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inagawa; Jun	Kanagawa-ken	N/A	N/A	JPX
Hayashi; Yasuhiro	Kanagawa-ken	N/A	N/A	JPX
Kubo; Makoto	Kanagawa-ken	N/A	N/A	JPX

US-CL-CURRENT: 369/48; 369/50, 369/54, 369/58

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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10. Document ID: US 5790488 A

L4: Entry 10 of 22 File: USPT Aug 4, 1998

US-PAT-NO: 5790488

DOCUMENT-IDENTIFIER: US 5790488 A

TITLE: Optical disk having both constant linear and constant angular velocity recording regions and optical disk recording system

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uemura; Yutaka	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 369/50; 369/47, 369/54, 369/58, 369/59

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

Generate Collection

Terms	Documents
13 same (dis\$1 or medium)	22

[Display](#) [10](#) Documents, starting with Document: [11](#)

Display Format: [CIT](#) [Change Format](#)

**WEST****Generate Collection****Search Results - Record(s) 11 through 20 of 22 returned.** 11. Document ID: US 5757750 A

L4: Entry 11 of 22

File: USPT

May 26, 1998

US-PAT-NO: 5757750

DOCUMENT-IDENTIFIER: US 5757750 A

TITLE: Optical disk having both constant linear and constant angular velocity recording regions and optical disk recording system

DATE-ISSUED: May 26, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uemura; Yutaka	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 369/50; 369/275.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#) 12. Document ID: US 5748587 A

L4: Entry 12 of 22

File: USPT

May 5, 1998

US-PAT-NO: 5748587

DOCUMENT-IDENTIFIER: US 5748587 A

TITLE: Spindle servo circuit in high-speed optical disk reproducer

DATE-ISSUED: May 5, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sim; Tae-Hyeon	Seoul	N/A	N/A	KRX

US-CL-CURRENT: 369/50; 369/124.14, 369/54[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#) 13. Document ID: US 5729515 A

L4: Entry 13 of 22

File: USPT

Mar 17, 1998

US-PAT-NO: 5729515

DOCUMENT-IDENTIFIER: US 5729515 A

TITLE: Disc data reproducing apparatus and signal processing circuit for reproducing and processing disc data having a plurality of type data

DATE-ISSUED: March 17, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inagawa; Jun	Kanagawa-ken	N/A	N/A	JPX
Hayashi; Yasuhiro	Kanagawa-ken	N/A	N/A	JPX
Kubo; Makoto	Kanagawa-ken	N/A	N/A	JPX

US-CL-CURRENT: 369/58; 369/48, 369/50, 369/54[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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 14. Document ID: US 5687148 A

L4: Entry 14 of 22

File: USPT

Nov 11, 1997

US-PAT-NO: 5687148

DOCUMENT-IDENTIFIER: US 5687148 A

TITLE: Optical disk having both constant linear and constant angular velocity recording regions and optical disk recording system

DATE-ISSUED: November 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uemura; Yutaka	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 369/50; 369/47, 369/54, 369/58, 369/59[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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 15. Document ID: US 5533003 A

L4: Entry 15 of 22

File: USPT

Jul 2, 1996

US-PAT-NO: 5533003

DOCUMENT-IDENTIFIER: US 5533003 A

TITLE: Recording device capable of detecting the change in length and position of the pit edge

DATE-ISSUED: July 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobayashi; Seiji	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 369/275.4; 369/58

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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16. Document ID: US 5526332 A

L4: Entry 16 of 22 File: USPT Jun 11, 1996

US-PAT-NO: 5526332

DOCUMENT-IDENTIFIER: US 5526332 A

TITLE: Reference clock generator for sampled servo type disk unit and disk unit

DATE-ISSUED: June 11, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Shin-iti	Katano	N/A	N/A	JPX
Moriya; Mitsurou	Ikoma	N/A	N/A	JPX
Yamaguchi; Hiroyuki	Hirakata	N/A	N/A	JPX
Kinou; Toshiyuki	Hirakata	N/A	N/A	JPX

US-CL-CURRENT: 369/48; 360/51, 369/124.07, 369/124.14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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17. Document ID: US 5278815 A

L4: Entry 17 of 22 File: USPT Jan 11, 1994

US-PAT-NO: 5278815  
DOCUMENT-IDENTIFIER: US 5278815 A

TITLE: Digital data reproducing apparatus

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mashimo; Akira	Musashino	N/A	N/A	JPX
Kubo; Mitsumasa	Musashino	N/A	N/A	JPX
Hishiyama; Fumio	Musashino	N/A	N/A	JPX
Shimamoto; Masayoshi	Amagasaki	N/A	N/A	JPX
Furukawa; Teruo	Amagasaki	N/A	N/A	JPX

US-CL-CURRENT: 369/48; 360/48, 360/51, 369/124.07, 369/124.14,  
369/44.32, 369/59

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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18. Document ID: US 5278814 A

L4: Entry 18 of 22 File: USPT Jan 11, 1994

US-PAT-NO: 5278814  
DOCUMENT-IDENTIFIER: US 5278814 A

TITLE: Apparatus for recording and reproducing information on  
and from an optical disk

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deguchi; Toshihisa	Nara	N/A	N/A	JPX
Fuji; Hiroshi	Kitakatsuragi	N/A	N/A	JPX
Terashima; Shigeo	Tenri	N/A	N/A	JPX

US-CL-CURRENT: 369/47; 369/275.3, 369/44.26, 369/50, 369/58

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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19. Document ID: US 5224086 A

L4: Entry 19 of 22 File: USPT Jun 29, 1993

US-PAT-NO: 5224086

DOCUMENT-IDENTIFIER: US 5224086 A

TITLE: Spindle servo system for magneto-optical recording/playback apparatus

DATE-ISSUED: June 29, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wachi; Shigeaki	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 369/50; 369/44.11, 369/47, 369/54

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn Desc](#) | [Image](#)

20. Document ID: US 5128916 A

L4: Entry 20 of 22

File: USPT

Jul 7, 1992

US-PAT-NO: 5128916

DOCUMENT-IDENTIFIER: US 5128916 A

TITLE: Optical disc with alternating servo patterns and driving apparatus therefor

DATE-ISSUED: July 7, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ito; Osamu	Tsukaguchihonmachi	N/A	N/A	JPX
Ogawa; Masaharu	Tsukaguchihonmachi	N/A	N/A	JPX
Yoshimoto; Kyosuke	Tsukaguchihonmachi	N/A	N/A	JPX
Tanaka; Kunimaro	Tsukaguchihonmachi	N/A	N/A	JPX
Furukawa; Teruo	Tsukaguchihonmachi	N/A	N/A	JPX
Nakajima; Yoshiki	Tsukaguchihonmachi	N/A	N/A	JPX

US-CL-CURRENT: 369/44.26; 369/275.3, 369/44.28, 369/54

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn Desc](#) | [Image](#)

[Generate Collection](#)

Terms	Documents
13 same (dis\$1 or medium)	22

[Display](#)

10

Documents, starting with Document:

21

[Display Format:](#)[CIT](#)[Change Format](#)

**WEST****Generate Collection****Search Results - Record(s) 21 through 22 of 22 returned.** **21. Document ID: US 5117412 A**

L4: Entry 21 of 22

File: USPT

May 26, 1992

US-PAT-NO: 5117412

DOCUMENT-IDENTIFIER: US 5117412 A

TITLE: Optical disc with servo pattern providing enhanced reliability of servo clock detection and apparatus for accessing the optical disc

DATE-ISSUED: May 26, 1992

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ito; Osamu	Amagasaki	N/A	N/A	JPX
Ogawa; Masaharu	Amagasaki	N/A	N/A	JPX
Yoshimoto; Kyosuke	Amagasaki	N/A	N/A	JPX
Tanaka; Kunimaro	Amagasaki	N/A	N/A	JPX
Furukawa; Teruo	Amagasaki	N/A	N/A	JPX
Nakajima; Yoshiki	Amagasaki	N/A	N/A	JPX

US-CL-CURRENT: 369/109; 369/124.05, 369/124.14, 369/275.3,  
369/32, 369/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KANC	Draw Desc	Image
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 **22. Document ID: US 5063546 A**

L4: Entry 22 of 22

File: USPT

Nov 5, 1991

US-PAT-NO: 5063546

DOCUMENT-IDENTIFIER: US 5063546 A

TITLE: Optic disc with servo pattern and apparatus for accessing the optical disc

DATE-ISSUED: November 5, 1991

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ito; Osamu	Amagasaki	N/A	N/A	JPX
Ogawa; Masaharu	Amagasaki	N/A	N/A	JPX
Yoshimoto; Kyosuke	Amagasaki	N/A	N/A	JPX
Tanaka; Kunimaro	Amagasaki	N/A	N/A	JPX
Furukawa; Teruo	Amagasaki	N/A	N/A	JPX
Nakajima; Yoshiki	Amagasaki	N/A	N/A	JPX

US-CL-CURRENT: 369/32; 369/275.3, 369/44.26, 369/44.28, 369/50

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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Terms	Documents
13 same (dis\$1 or medium)	22

[Display](#) [10] Documents, starting with Document: [22](#)

Display Format: [CIT](#) [Change Format](#)